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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/614,097	07/03/2003	Scott Adam Stephens	9792-0038-999	7392
24341	590 06/30/2004		EXAMINER	
	LEWIS & BOCKIUS,	ALSOMIRI, ISAM A		
	IEW AVENUE), CA 94304		ART UNIT	PAPER NUMBER
THEOTIE	, 0.1 3.00		3662	
		DATE MAILED: 06/20/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	10/614,097	STEPHENS, SCOTT ADAM			
Office Action Summary	Examiner	Art Unit			
	Isam A Alsomiri	3662			
The MAILING DATE of this communication appe Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period work. Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	6(a). In no event, however, may a reply be timwithin the statutory minimum of thirty (30) days ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
1)⊠ Responsive to communication(s) filed on <u>03 July 2003</u> .					
2a) ☐ This action is FINAL . 2b) ☑ This	This action is FINAL . 2b)⊠ This action is non-final.				
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closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	i3 O.G. 213.			
Disposition of Claims					
4) ☐ Claim(s) 1-28 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) 15-17 and 20-28 is/are allowed. 6) ☐ Claim(s) 1-14,18 and 19 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or					
Application Papers					
9) ☐ The specification is objected to by the Examine 10) ☑ The drawing(s) filed on 03 July 2003 is/are: a) ☐ Applicant may not request that any objection to the o Replacement drawing sheet(s) including the correct 11) ☐ The oath or declaration is objected to by the Ex	☐ accepted or b)☑ objected to be drawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s)					
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal F 6) Other:				
S. Patent and Trademark Office		D-4 - 6 D-4 - 14 11 D-4 - 004004			

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DETAILED ACTION

Drawings

The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the limitation in claim 10 must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

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The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1 and 18-19 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. The limitation "preferentially" is indefinite and is not clear.

Claim 10 is rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention. the limitations "two antennas driven by substantially identical signals having a phase difference, the phase difference controlling the range of angles of the null" is not described in the disclosure (specification and more importantly drawings).

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

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Claims 1, 5-8, and 11-14 are rejected under 35 U.S.C. 102(e) as being anticipated by Holt US 6,608,593. Referring to claim 1, Holt discloses in figures 3-8 a method of determining the position of a device 64 relative to a landmark (see Abstract), comprising: transmitting a pulse from the device, the pulse having a polarization (see col. 8 lines 36-43); receiving a return signal over a period of time, the return signal including a reflected pulse from the landmark, and processing the return signal so as to isolate the reflected pulse from the return signal and to determine a range from the device to the landmark (see col. 4 lines 21-39 and 47-50).

Referring to claim 5, Holt teaches the device is inherently moving in a particular direction, at a velocity, while performing the receiving step (mobile transmitting unit); and inherently detecting a Doppler shift in the reflected pulse portion of the return signal; and determining an angle between the particular direction and a straight line between the device and the landmark as a function of the detected Doppler shift to locate the target (relative to the proxy receive sites).

Referring to claims 6-8 and 11-12, its inherent that Holt's system transmitting the pulse at a first position and a second position of the device (mobile transmitting unit) since it's moving, and processing the first and second sets of range measurements to produce a reduced set of range candidates that are consistent with one or more potential landmark positions.

Furthermore each transmission of the pulse having a respective transmission beam pattern with a null over a different respective range of angles (see col. 18 lines 47-55, col. 4 lines 31-36,).

Referring to claims 13 and 14, it's inherent that Hunt's system includes repeating the transmitting and receiving a plurality of times (since the target can be moving) and combining the resulting return signals to produce a representative return signal, wherein the processing step

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processes the representative return signal. Furthermore, even while the target remains at a single location, the transmitting and receiving is inherently done multiple times in situation where multiple landmarks are used at different location; therefore, the transmitting and receiving must be done multiple times at least once to each landmark location.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 2-4 and 9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Holt US 6,608,593. Referring to claims 2-4, Holt teaches the polarization (see rejection claim 1); however, Holt is silent about having circular polarization (right-hand or left-hand). However, having right-hand or left-hand circular polarizations are well known in the art and are widely used to discriminate between unwanted signals and the desired returns. It would have been obvious to modify Holt's system to have circular polarization (right or left hand) to discriminate between unwanted signals and the desired returns.

Referring to claim 9, Holt is silent about the null in the respective transmission beam pattern is less than 15 degree wide. However, having the null beam patter less than 15 degree wide is well known and it would be obvious to include for obtaining better accuracy measurement.

¹ 《解释》以1990年,2011年19月1日 編出《北麓南海南南南省市)1990年1日 (1990年)

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Allowable Subject Matter

Claims 15-17 and 20-28 are allowed.

Claims 10 and 18-19 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Isam A Alsomiri whose telephone number is 703-305-5702. The examiner can normally be reached on Monday-Thursday and every other Friday (8:30-5:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas H Tarcza can be reached on 703-306-4171. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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Isam Alsomiri

June 16, 2004

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JOHN B. SOTOMAYOR PRIMARY EXAMNER